



WL-357

Wireless Mobile Router 300N



User Manual

Revision: 1.0

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Introduction

Congratulations on your purchase of the WL-357 Wireless Mobile Router 300N. The WL-357 is compliant with draft 802.11n v 2.0 up to 6 times faster than standard 802.11g based routers while still being compatible with 802.11g & 802.11b gadgets.

At 300 Mbps wireless transmission rate, the Access Point built into the Router uses advanced MIMO (Multi-Input, Multi-Output) technology to transmit multiple streams of data in a single wireless channel, giving you seamless access to multimedia content. Robust RF signal reaches farther, eliminates dead spots and extends network range. For data protection and privacy, the WL-357 encodes all wireless transmissions with WEP, WPA, and WPA2 encryption.

With the built-in DHCP Server & powerful SPI firewall, the WL-357 protects your computers against intruders and most known Internet attacks but provides safe VPN pass-through. With the small form factor and built-in power supply, the WL-357 is ideal for use on the move, in hotels or on campsites.

Besides, it also provides a USB port which let you easily share a 3G/UMTS modem.

1 Key Features

Features	Advantages
Incredible Data Rate up to 300Mbps*	Heavy data payloads such as MPEG video streaming
IEEE 802.11n draft 2.0 Compliant and backward compatible with 802.11b/g	Fully Interoperable with IEEE 802.11b / IEEE802.11g compliant devices with legacy protection
USB port for 3G USB modem	Wireless internet everywhere, even without broadband availability.
Firewall supports Virtual Server Mapping, DMZ, IP Filter, ICMP Blocking, SPI	Avoids the attacks of Hackers or Viruses from Internet
Support 802.1x authenticator, 802.11i (WPA/WPA2, AES), VPN pass-through	Provide mutual authentication (Client and dynamic encryption keys to enhance security
OPS (One Push Setup)	Connect a client via a secure connection with one push of a button.

** Theoretical wireless signal rate based on IEEE standard of 802.11a, b, g, n chipset used. Actual throughput may vary. Network conditions and environmental factors lower actual throughput rate. All specifications are subject to change without notice.*

2 Package Contents

Open the package carefully, and make sure that none of the items listed below are missing. Do not discard the packing materials, in case of return; the unit must be shipped back in its original package.

1. WL-357 Router
2. Power Cable
3. Quick Install Guide
4. CD (User's Manual)
5. Warranty card
6. UTP cable

3 Product Layout



Port	Description
AC 100v~240v	Connect the AC power cable to this port
RJ45	Connect your ADSL/Cable modem to this port
3G 	Connect your 3G USB modem to this port

Top Cover

On the top cover you can see the LEDs that show the functionality of the device. Also present is the OPS button which allows you to connect your computer with a secure wireless connection with the push of a button.



From left to right the LED's show the following:

Power, Ethernet, WPS, WLAN, 3G (USB)

Button	Description
OPS	Press 2 seconds for OPS mode
	Press 10 seconds to reset the router
	Press 15 Seconds to reset the router to factory defaults.

Back label

The back label describes the IP address, login details, SSID, security and code.



4 Network + System Requirements

To begin using the WL-357, make sure you meet the following as minimum requirements:

- PC/Notebook.
- Operating System – Microsoft Windows XP/2000/VISTA
- Wi-Fi card/USB client (802.11 b/g/n).
- External xDSL (ADSL) or Cable modem with an Ethernet port (RJ-45), or a 3G USB modem.
- Web-Browser (Internet Explorer, Safari, Firefox, Opera)

5 WL-357 Placement

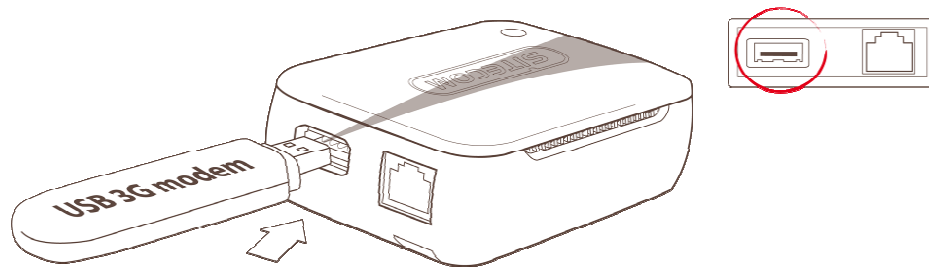
You can place the WL-357 on a desk or other flat surface, or you can mount it on a wall. For optimal performance, place your Wireless Mobile Router 300N in the center of your office (or your home) in a location that is away from any potential source of interference, such as a metal wall or microwave oven. This location must be close to a power connection and your ADSL/Cable modem in case you're using the WAN port.

6 Setup LAN, WAN

The WL-357 has one Ethernet port that doubles as a WAN (Internet) port and a LAN port.

When no 3G USB client is inserted in the USB port, the port functions as WAN.
When a 3G USB client is inserted in the USB port, the port functions as LAN.

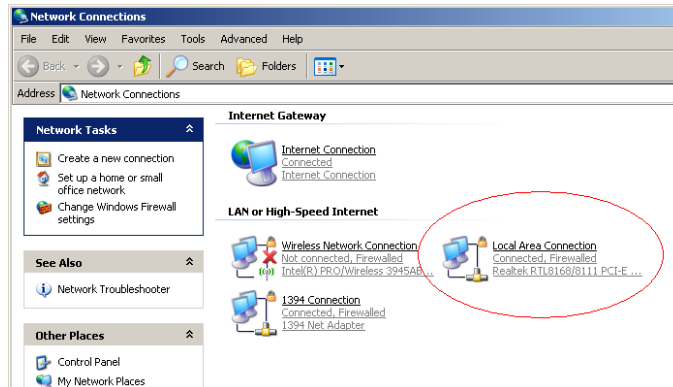
To use only the 3G USB connection, just insert a 3G USB client into the designated USB port.



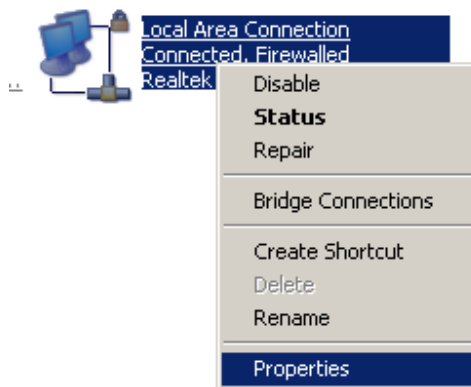
7 PC Network Adapter setup

Windows XP

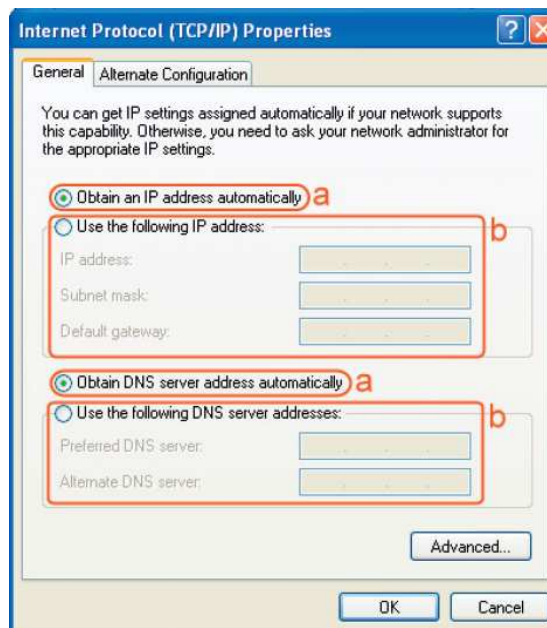
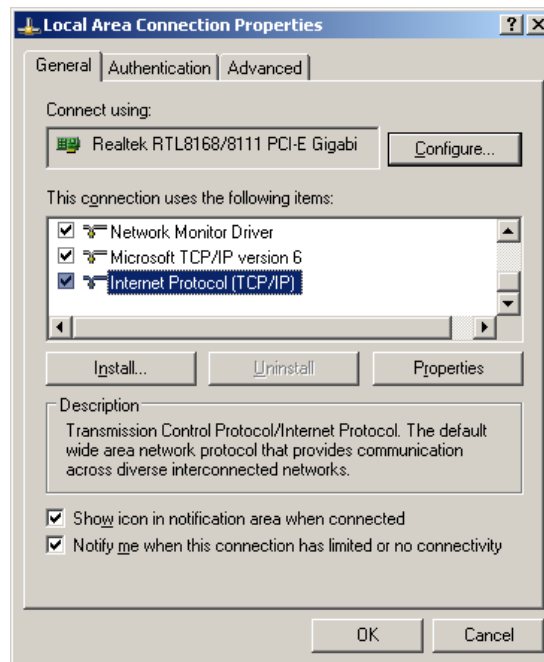
- Enter [Start Menu] → select [Control panel] → select [Network].



- Select [Local Area Connection]) icon=>select [properties]



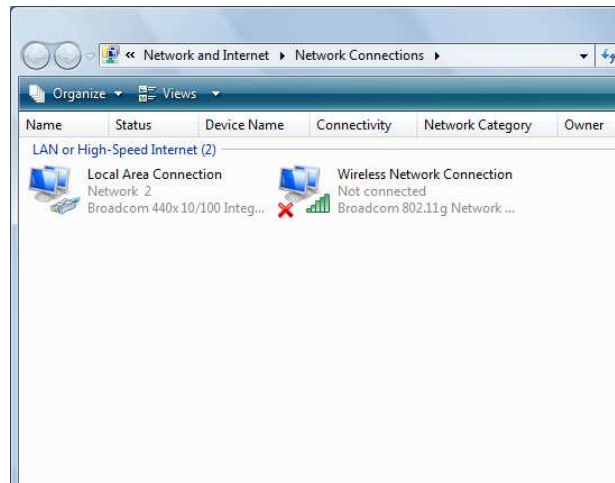
- Select [Internet Protocol (TCP/IP)] =>Click [Properties].



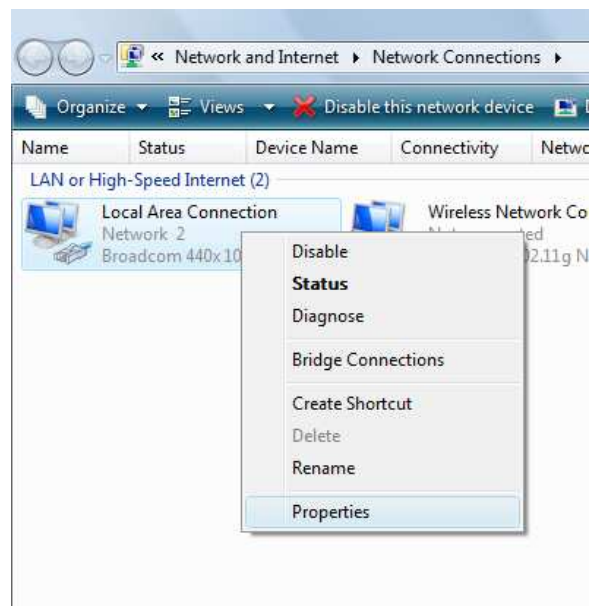
- Select the [General] tab.
 - a. The WL-357 supports [DHCP] function, please select both [Obtain an IP address automatically] and [Obtain DNS server address automatically].

Windows Vista

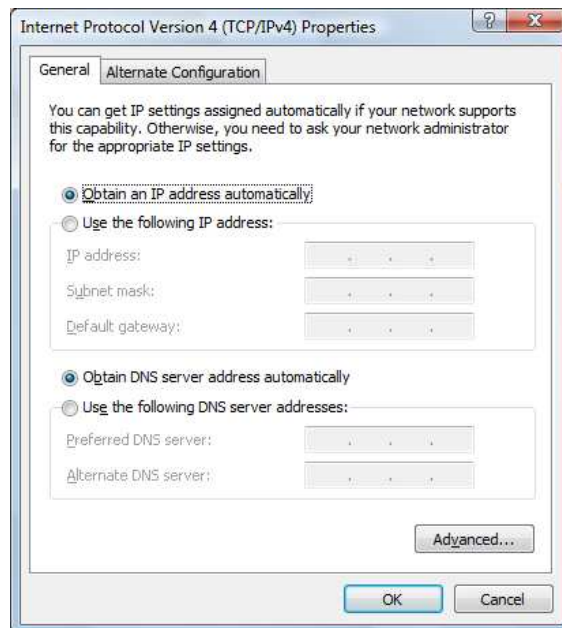
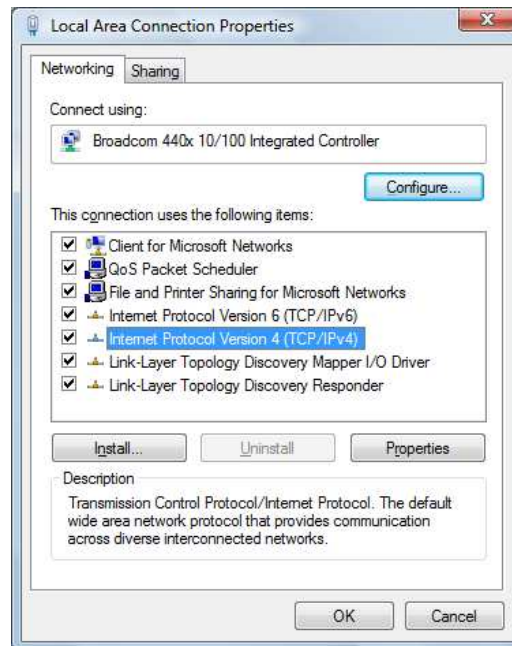
- Enter [Start Menu] → select [Control panel] → select [View network status and tasks] -> select [Manage network connections].



- Select [Local Area Connection] icon=>select [properties]



- Select [Internet Protocol Version 4 (TCP/IPv4)] =>Click [Properties].



- Select the [General] tab.

The WL-357 supports [DHCP] function, please select both [Obtain an IP address automatically] and [Obtain DNS server address automatically].

8 Bringing up the WL-357

Connect the supplied power-adaptor to the power inlet port and connect it to a wall outlet. The WL-357 automatically enters the self-test phase. During self-test phase, the Power LED will be lit continuously to indicate that this product is in normal operation.

9 Initial Setup of the WL-357

LOGIN procedure

1. OPEN your browser (e.g. Internet Explorer).



2. Type <http://192.168.0.1> in the address bar and press [Enter].



3. Type user name and password (default is admin/admin).



A Windows-style dialog box titled "Connect to 192.168.0.1". It features a blue header bar with a key icon. The main text area contains a warning about insecure authentication. Below the text are input fields for "User name" (with a dropdown menu showing "admin") and "Password" (with masked characters). A checkbox labeled "Remember my password" is checked. At the bottom are "OK" and "Cancel" buttons.

Connect to 192.168.0.1

The server 192.168.0.1 at Default: admin/admin requires a username and password.

Warning: This server is requesting that your username and password be sent in an insecure manner (basic authentication without a secure connection).

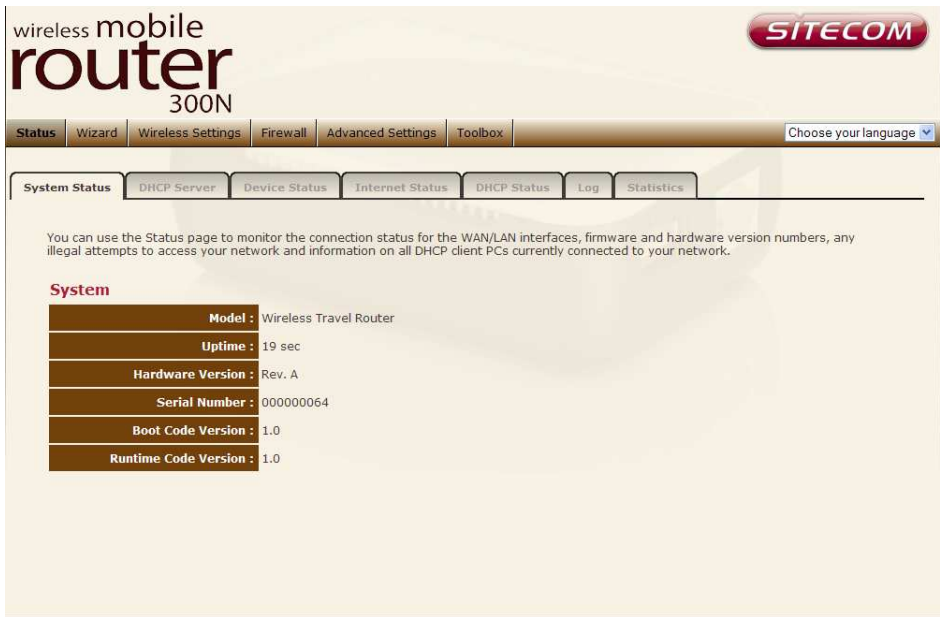
User name: admin

Password:

☒ Remember my password

OK Cancel

4. Click **OK**.
5. You will see the home page of the WL-357.



The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. A "Choose your language" dropdown is on the right. Below the navigation bar is a "System Status" section with tabs for DHCP Server, Device Status, Internet Status, DHCP Status, Log, and Statistics. The "System Status" tab is active, displaying a table of system information.

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300N

SITECOM

Status Wizard Wireless Settings Firewall Advanced Settings Toolbox Choose your language

System Status DHCP Server Device Status Internet Status DHCP Status Log Statistics

You can use the Status page to monitor the connection status for the WAN/LAN interfaces, firmware and hardware version numbers, any illegal attempts to access your network and information on all DHCP client PCs currently connected to your network.

System

Model :	Wireless Travel Router
Uptime :	19 sec
Hardware Version :	Rev. A
Serial Number :	000000064
Boot Code Version :	1.0
Runtime Code Version :	1.0

The System status section allows you to monitor the current status of your router: the UP time, hardware information, serial number as well as firmware version information is displayed here.

LAN settings

The LAN tab gives you the opportunity to change the IP settings of the WL-357.

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SITECOM

Status Wizard Wireless Settings Firewall Advanced Settings Toolbox Choose your language ▼

System Status **DHCP Server** Device Status Internet Status DHCP Status Log Statistics

You can enable the Broadband routers DHCP server to dynamically allocate IP Addresses to your LAN client PCs. The broadband router must have an IP Address for the Local Area Network.

LAN IP

IP Address :	192.168.0.1
IP Subnet Mask :	255.255.255.0
802.1d Spanning Tree :	Disabled ▼
DHCP Server :	Enabled ▼
Lease Time :	Forever ▼

DHCP Server

Start IP :	192.168.0.100
End IP :	192.168.0.200
Domain Name :	sitecomwl357

Apply Cancel

Click **<Apply>** at the bottom of this screen to save any changes.

IP address 192.168.0.1. It is the router's LAN IP address (Your LAN clients default gateway IP address).

IP Subnet Mask 255.255.255.0 Specify a Subnet Mask for your LAN segment.

802.1d Spanning Tree is Disabled by default. If the 802.1d Spanning Tree function is enabled, this router will use the spanning tree protocol to prevent network loops.

DHCP Server Enabled by default. You can enable or disable the DHCP server. When DHCP is disabled no IP-addresses are assigned to clients and you have to use static IP-addresses. When DHCP server is enabled your computers will be assigned an IP-address automatically until the lease time expires.

Lease Time Forever. In the Lease Time setting you can specify the time period that the DHCP lends an IP address to your LAN clients. The DHCP will change your LAN client's IP address when this time threshold period is reached.

IP Address Pool You can select a particular IP address range for your DHCP server to issue IP addresses to your LAN Clients.

Note: *default IP range 192.168.0.100 - 192.168.0.200. If you want your PC(s) to have a static/fixed IP address, then you'll have to choose an IP address outside this IP address Pool*

Domain Name You can specify a Domain Name for your LAN, or just keep the default (sitecomwl357).

Device Status

View the Broadband router's current configuration settings. Device Status displays the configuration settings you've configured in the Wizard / Basic Settings / Wireless Settings section.

The screenshot shows the web interface of a Sitecom 300N wireless mobile router. The page title is "wireless mobile router 300N" with the Sitecom logo. The navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. A language selection dropdown is set to "Choose your language". Below the navigation bar, a sub-menu highlights "Device Status" among other options like System Status, DHCP Server, Internet Status, DHCP Status, Log, and Statistics.

View the current setting status of this device.

Mode :	AP
Channel :	1

SSID_1

ESSID :	Sitecom5FAB74
Security :	WPA2 pre-shared key
BSSID :	00:0C:F6:5F:AB:74
Associated Clients :	0

LAN Configuration

IP Address :	192.168.0.1
Subnet Mask :	255.255.255.0
DHCP Server :	Enabled
MAC Address :	00:0C:F6:5F:AB:74

Internet Status

This page displays whether the WAN port is connected to a Cable/DSL or 3G connection. It also displays the router's WAN IP address, Subnet Mask, and ISP Gateway as well as MAC address, the Primary DNS. Press **Renew** button to renew your WAN IP address.

The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The page title is "wireless mobile router 300N" and the Sitecom logo is in the top right. A navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. A language selection dropdown is on the right. Below the navigation bar, a tabbed interface shows "Internet Status" as the active tab, with other tabs for System Status, DHCP Server, Device Status, DHCP Status, Log, and Statistics. The main content area displays the current internet connection status and related information. A table lists the following details:

Attain IP Protocol :	Mobile 3G
3G USB Modem Status :	Ready
SIM Status :	SIM Card need PIN code
Signal :	No Signal
IP Address :	---
Subnet Mask :	---
Default Gateway :	---
Primary DNS :	---

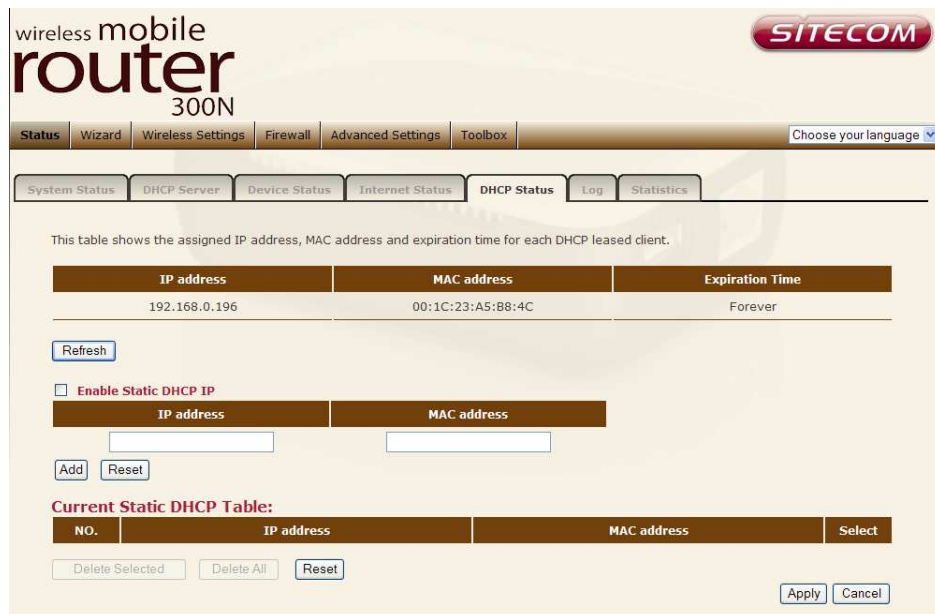
At the bottom right of the status area, there are two buttons: "Connect" and "Disconnect".

DHCP Client Status

DHCP This page shows all DHCP clients (LAN PCs) currently connected to your network. The table shows the assigned IP address, MAC address and expiration time for each DHCP leased client. Use the Refresh button to update the available information.

You can check **Enable Static DHCP IP**. It is possible to add more static DHCP IP's. They are listed in the table **Current Static DHCP Table**. IP can be deleted at will from the table.

Click **apply** button to save the changed configuration.



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Status Wizard Wireless Settings Firewall Advanced Settings Toolbox Choose your language

System Status DHCP Server Device Status Internet Status **DHCP Status** Log Statistics

This table shows the assigned IP address, MAC address and expiration time for each DHCP leased client.

IP address	MAC address	Expiration Time
192.168.0.196	00:1C:23:A5:B8:4C	Forever

Refresh

☐ Enable Static DHCP IP

IP address	MAC address

Add Reset

Current Static DHCP Table:

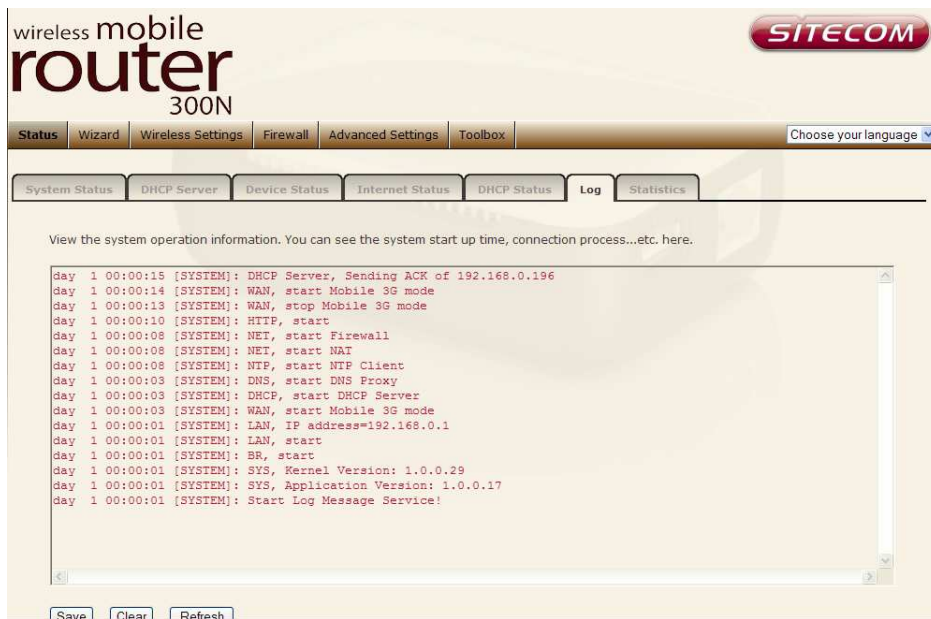
NO.	IP address	MAC address	Select
-----	------------	-------------	--------

Delete Selected Delete All Reset

Apply Cancel

WL-357 Log

View the operation **log of the WL-357**. This page shows the current system log of the Broadband router. It displays any event occurred after system start up. At the bottom of the page, the system log can be saved **<Save>** to a local file for further processing or the system log can be cleared **<Clear>** or it can be refreshed **<Refresh>** to get the most updated information. When the system is powered down, the system log will disappear if not saved to a local file.



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Status Wizard Wireless Settings Firewall Advanced Settings Toolbox Choose your language

System Status DHCP Server Device Status Internet Status DHCP Status **Log** Statistics

View the system operation information. You can see the system start up time, connection process...etc. here.

```
day 1 00:00:15 [SYSTEM]: DHCP Server, Sending ACK of 192.168.0.196
day 1 00:00:14 [SYSTEM]: WAN, start Mobile 3G mode
day 1 00:00:13 [SYSTEM]: WAN, stop Mobile 3G mode
day 1 00:00:10 [SYSTEM]: HTTP, start
day 1 00:00:08 [SYSTEM]: NET, start Firewall
day 1 00:00:08 [SYSTEM]: NET, start NAT
day 1 00:00:08 [SYSTEM]: NTP, start NTP Client
day 1 00:00:03 [SYSTEM]: DNS, start DNS Proxy
day 1 00:00:03 [SYSTEM]: DHCP, start DHCP Server
day 1 00:00:03 [SYSTEM]: WAN, start Mobile 3G mode
day 1 00:00:01 [SYSTEM]: LAN, IP address=192.168.0.1
day 1 00:00:01 [SYSTEM]: LAN, start
day 1 00:00:01 [SYSTEM]: BR, start
day 1 00:00:01 [SYSTEM]: SYS, Kernel Version: 1.0.0.29
day 1 00:00:01 [SYSTEM]: SYS, Application Version: 1.0.0.17
day 1 00:00:01 [SYSTEM]: Start Log Message Service!
```

Save Clear Refresh

WL-357 Statistics

Shows the counters of packets sent and received on WAN, LAN & WLAN.

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SITECOM

Status Wizard Wireless Settings Firewall Advanced Settings Toolbox Choose your language ▼

System Status DHCP Server Device Status Internet Status DHCP Status Log **Statistics**

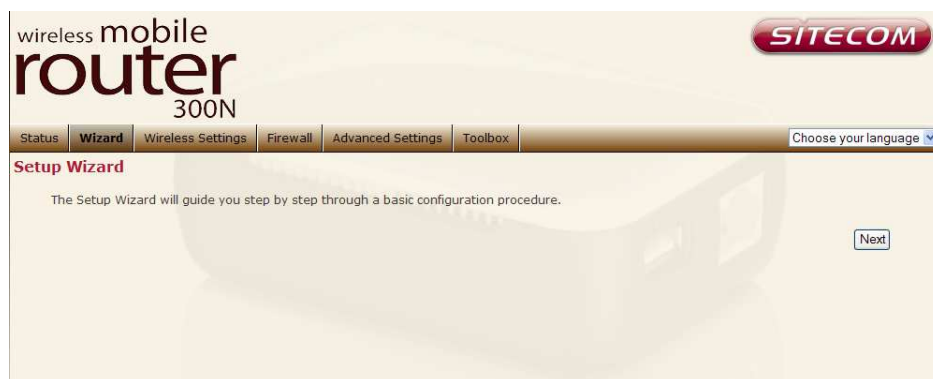
This page shows the packet counters for transmission and reception regarding to networks.

Wireless LAN :	Sent Packets	420
	Received Packets	620
Ethernet LAN :	Sent Packets	395
	Received Packets	367
Ethernet WAN :	Sent Packets	0
	Received Packets	0

Refresh

10 Configuration Wizard

Click **Wizard** to configure the router. The Setup wizard will now be displayed; check that the modem is connected and click **Next**.



Select your country from the Country list. Select your internet provider. Alternatively you can select "Mobile 3G" to set the WL-357 up for a 3G/UMTS connection. Click **Next**.



Depending on the chosen provider, you may need to enter your user name and password, MAC address or hostname in the following window. After you have entered the correct information, click **Next**.

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StatusWizardWireless SettingsFirewallAdvanced SettingsToolbox

Choose your language

Please, enter the data which is supplied by your ISP.

Login Method :	PPP over Ethernet		
Username :			
Password :			
Service :			
MTU :	1452	(512<=MTU Value<=1492)	
Connection Type :	Keep connection	Connect	Disconnect
Idle Time :	10	(1-1000 Minutes)	

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StatusWizardWireless SettingsFirewallAdvanced SettingsToolbox

Choose your language

Please, enter the data which is supplied by your ISP.

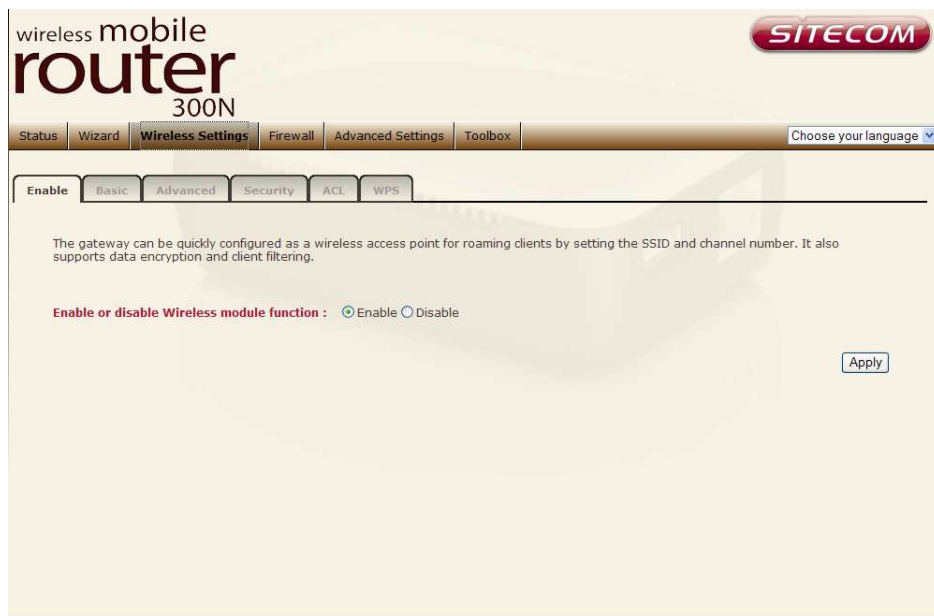
Login Method :	Mobile 3G		
Pin Code:			
APN Code:			
Phone Number:			
User Name:			
Password:			
Type:	Keep connection	Connect	Disconnect
Idle Time :	10	(1-1000 Minutes)	

Click **APPLY** to complete the configuration.

11 Wireless Settings

You can set parameters that are used for the wireless stations to connect to this router. The parameters include Mode, ESSID, Channel Number and Associated Client.

Wireless Function



Enable or Disable Wireless function here. Click **Apply** and wait for module to be ready & loaded.

Basic Settings

The screenshot shows the configuration interface for a Sitecom 300N wireless mobile router. The page is titled "wireless mobile router 300N" and features the Sitecom logo. A navigation bar includes tabs for Status, Wizard, Wireless Settings (selected), Firewall, Advanced Settings, and Toolbox. A language selection dropdown is also present. Below the navigation bar, there are sub-tabs: Enable, Basic (selected), Advanced, Security, ACL, and WPS. The main content area explains that this page is for defining ESSID and Channel for the wireless connection. It contains five configuration fields: Mode (set to AP), Band (set to 2.4 GHz (B+G+N)), Enable SSID# (set to 1), SSID1 (set to Sitecom5FAB74), and Channel (set to 1). At the bottom right, there are Apply and Cancel buttons.

Field	Value
Mode	AP
Band	2.4 GHz (B+G+N)
Enable SSID#	1
SSID1	Sitecom5FAB74
Channel	1

- Mode** Allows you to set the AP to AP, Station, Bridge or WDS mode.
- Band** Allows you to set the AP fixed at 802.11b or 802.11g mode. You can also select B+G mode to allow 802.11b and 802.11g clients at the same time.
- SSID** This is the name of the wireless signal which is broadcasted. All the devices in the same wireless LAN should have the same ESSID.
- Channel** The channel used by the wireless LAN. All devices in the same wireless LAN should use the same channel.

Advanced Settings

This tab allows you to set the advanced wireless options. The options included are Authentication Type, Fragment Threshold, RTS Threshold, Beacon Interval, and Preamble Type. You should not change these parameters unless you know what effect the changes will have on the router.

The screenshot shows the 'Advanced Settings' tab for a Sitecom wireless mobile router 300N. The interface includes a top navigation bar with tabs for Status, Wizard, Wireless Settings (selected), Firewall, Advanced Settings, and Toolbox. Below this is a sub-navigation bar with tabs for Enable, Basic, Advanced (selected), Security, ACL, and WPS. A warning message states: 'These settings are only for more technically advanced users who have a sufficient knowledge about wireless LAN. These settings should not be changed unless you know what effect the changes will have on your Broadband router.' The settings are as follows:

Setting	Value	Range
Fragment Threshold	2346	(256-2346)
RTS Threshold	2347	(1-2347)
Beacon Interval	100	(20-1024 ms)
DTIM Period	1	(1-255)
Data Rate	Auto	
N Data Rate	Auto	
Channel Bandwidth	☒ Auto 20/40 MHz ☐ 20 MHz	
Preamble Type	☐ Long Preamble ☒ Short Preamble	
CTS Protection	☒ Auto ☐ Always ☐ None	
Tx Power	100 %	

Buttons for 'Apply' and 'Cancel' are located at the bottom right.

Fragment Threshold "Fragment Threshold" specifies the maximum size of a packet during the fragmentation of data to be transmitted. If you set this value too low, it will result in bad performance.

RTS Threshold When the packet size is smaller than the RTS threshold, the wireless router will not use the RTS/CTS mechanism to send this packet.

Beacon Interval is the interval of time that this wireless router broadcasts a beacon. A Beacon is used to synchronize the wireless network.

Data Rate The "Data Rate" is the rate that this access point uses to transmit data packets. The access point will use the highest possible selected transmission rate to transmit the data packets.

N Data Rate The "Data Rate" is the rate that this access point uses to transmit data packets for N compliant wireless nodes. Highest to lowest data rate can be fixed.

Channel Bandwidth is the range of frequencies that will be used.

Preamble Type The "Long Preamble" can provide better wireless LAN compatibility while the "Short Preamble" can provide better wireless LAN performance.

CTS Protection: It is recommended to enable the protection mechanism. This mechanism can decrease the rate of data collision between 802.11b and 802.11g wireless stations. When the protection mode is enabled, the throughput of the AP will be a little lower due to a lot of frame-network that is transmitted.

TX Power can be set to a bare minimum or maximum power.

Security

This Access Point provides complete wireless LAN security functions, included are WEP, IEEE 802.11x, IEEE 802.11x with WEP, WPA with pre-shared key and WPA with RADIUS. With these security functions, you can prevent your wireless LAN from illegal access. Please make sure your wireless stations use the same security function, and are setup with the same security key.

Disable

When you choose to disable encryption, it is very insecure to operate the WL-357.



The screenshot shows a web interface for configuring wireless security. At the top, there are tabs: 'Enable', 'Basic', 'Advanced', 'Security' (selected), 'ACL', and 'WPS'. Below the tabs, a message states: 'This page allows you setup the wireless security. Turn on WEP or WPA by using Encryption Keys could prevent any unauthorized access to your wireless network.' The 'Encryption' dropdown menu is set to 'Disable'. Below this, there is a checkbox labeled 'Enable 802.1x Authentication' which is currently unchecked. At the bottom right, there are 'Apply' and 'Cancel' buttons.

Enable 802.1x Auth

IEEE 802.1x is an authentication protocol. Every user must use a valid account to login to this Access Point before accessing the wireless LAN. The authentication is processed by a RADIUS server. This mode only authenticates users by IEEE 802.1x, but it does not encrypt the data during communication



The screenshot shows the same web interface as the previous one, but with the 'Enable 802.1x Authentication' checkbox checked. Below the checkbox, there are three input fields: 'RADIUS Server IP Address', 'RADIUS Server Port' (with the value '1812' entered), and 'RADIUS Server Password'. At the bottom right, there are 'Apply' and 'Cancel' buttons.

WEP

When you select 64-bit or 128-bit WEP key, you have to enter WEP keys to encrypt data. You can generate the key by yourself and enter it. You can enter four WEP keys and select one of them as a default key. Then the router can receive any packets encrypted by one of the four keys.



The screenshot shows a configuration interface for WEP encryption. It features a table with the following rows and columns:

Field	Value
Encryption :	WEP
Key Length :	64-bit
Key Type :	ASCII (5 characters)
Default Key :	Key 1
Encryption Key 1 :	
Encryption Key 2 :	
Encryption Key 3 :	
Encryption Key 4 :	

Key Length You can select the WEP key length for encryption, 64-bit or 128-bit. The larger the key will be the higher level of security is used, but the throughput will be lower.

Key Format You may select ASCII Characters (alphanumeric format) or Hexadecimal Digits (in the "A-F", "a-f" and "0-9" range) to be the WEP Key.

Key1 - Key4 The WEP keys are used to encrypt data transmitted in the wireless network. Use the following rules to setup a WEP key on the device. 64-bit WEP: input 10-digits Hex values (in the "A-F", "a-f" and "0-9" range) or 5-digit ASCII character as the encryption keys. 128-bit WEP: input 26-digit Hex values (in the "A-F", "a-f" and "0-9" range) or 13-digit ASCII characters as the encryption keys.

Click <Apply> at the bottom of the screen to save the above configurations. You can now configure other sections by choosing Continue, or choose Apply to apply the settings and reboot the device.

WPA Pre-shared Key

Wi-Fi Protected Access (WPA) is an advanced security standard. You can use a pre-shared key to authenticate wireless stations and encrypt data during communication. It uses TKIP or CCMP (AES) to change the encryption key frequently. So the encryption key is not easy to be cracked by hackers. This is the best security available.



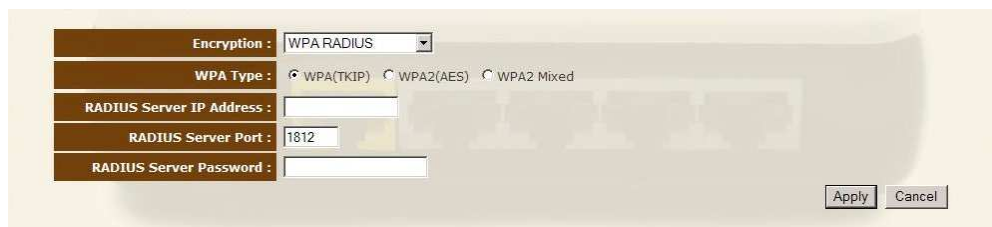
The image shows a configuration window for WPA Pre-shared Key. It has a light beige background with a darker beige header area. The configuration fields are as follows:

Encryption :	WPA pre-shared key
WPA Type :	☒ WPA(TKIP) ☐ WPA2(AES) ☐ WPA2 Mixed
Pre-shared Key Type :	Passphrase
Pre-sharedKey :	

At the bottom right, there are two buttons: "Apply" and "Cancel".

WPA-Radius

Wi-Fi Protected Access (**WPA**) is an advanced security standard. You can use an external RADIUS server to authenticate wireless stations and provide the session key to encrypt data during communication. It uses **TKIP** or CCMP (**AES**) to change the encryption key frequently. Press **Apply** button when you are done.



The image shows a configuration window for WPA-Radius. It has a light beige background with a darker beige header area. The configuration fields are as follows:

Encryption :	WPA RADIUS
WPA Type :	☒ WPA(TKIP) ☐ WPA2(AES) ☐ WPA2 Mixed
RADIUS Server IP Address :	
RADIUS Server Port :	1812
RADIUS Server Password :	

At the bottom right, there are two buttons: "Apply" and "Cancel".

ACL

This wireless router supports MAC Address Control, which prevents unauthorized clients from accessing your wireless network.

The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings (selected), Firewall, Advanced Settings, and Toolbox. A language selection dropdown is on the right. Below the navigation bar, there are tabs for Enable, Basic, Advanced, Security, ACL (selected), and WPS. A note states: "For security reason, the Access Point features MAC Address Filtering which only allows authorized MAC Addresses to associate with the Access Point." The main section is titled "MAC Address Filtering Table" and contains a table with columns: NO., MAC address, Comment, and Select. Below the table are buttons for "Delete Selected", "Delete All", and "Reset". There is a checkbox labeled "Enable Wireless Access Control". Below this, there is a "New:" section with input fields for "MAC address" and "Comment", and "Add" and "Reset" buttons. At the bottom right, there are "Apply" and "Cancel" buttons.

Enable wireless access control Enables the wireless access control function

Adding an address into the list Enter the "MAC Address" and "Comment" of the wireless station to be added and then click "Add". The wireless station will now be added into the "Current Access Control List" below. If you are having any difficulties filling in the fields, just click "Clear" and both "MAC Address" and "Comment" fields will be cleared.

Remove an address from the list If you want to remove a MAC address from the "Current Access Control List", select the MAC address that you want to remove in the list and then click "Delete Selected". If you want to remove all the MAC addresses from the list, just click the "Delete All" button. Click "Reset" will clear your current selections.

Click <Apply> at the bottom of the screen to save the above configurations. You can now configure other sections by choosing Continue, or choose Apply to apply the settings and reboot the device.

WPS

Wi-Fi Protected Setup (WPS) is the simplest way to establish a connection between the wireless clients and the wireless router. You don't have to select the encryption mode and fill in a long encryption passphrase every time when you try to setup a wireless connection. You only need to press a button on both wireless client and wireless router, and WPS will do the rest for you.

The wireless router supports two types of WPS: WPS via Push Button and WPS via PIN code. If you want to use the Push Button, you have to push a specific button on the wireless client or in the utility of the wireless client to start the WPS mode, and switch the wireless router to WPS mode. You can simply push the WPS button of the wireless router, or click the 'Start to Process' button in the web configuration interface. If you want to use the PIN code, you have to know the PIN code of the wireless client and switch it to WPS mode, then fill-in the PIN code of the wireless client through the web configuration interface of the wireless router.

The screenshot displays the web configuration interface for a Sitecom 300N wireless mobile router. The page title is "wireless mobile router 300N" with the Sitecom logo in the top right. A navigation bar includes links for Status, Wizard, Wireless Settings (selected), Firewall, Advanced Settings, and Toolbox. Below this is a language selection dropdown. The main content area has tabs for Enable, Basic, Advanced, Security, ACL, and WPS (selected). Under the WPS tab, there is a "WPS : ☒ Enable" option. A section titled "Wi-Fi Protected Setup Information" contains the following details: "WPS Current Status : Configured", "Self Pin Code : 62698122", "SSID : Sitecom5FAB74", "Authentication Mode : WPA2 pre-shared key", and "Passphrase Key : FKL9BMCPLZ83". At the bottom, there are two options: "WPS Via Push Button : [Start to Process]" and "WPS Via PIN : [] [Start to Process]".

WPS Check the box to enable WPS function and uncheck it to disable the WPS function.

WPS Current Status If the wireless security (encryption) function of this wireless router is properly set, you'll see a 'Configured' message here. Otherwise, you'll see 'UnConfigured'.

Self Pin Code This is the WPS PIN code of the wireless router. You may need this information when connecting to other WPS-enabled wireless devices.

SSID This is the network broadcast name (SSID) of the router.

Authentication Mode It shows the active authentication mode for the wireless connection.

Passphrase Key It shows the passphrase key that is randomly generated by the wireless router during the WPS process. You may need this information when using a device which doesn't support WPS.

WPS via Push Button Press the button to start the WPS process. The router will wait for the WPS request from the wireless devices within 2 minutes.

WPS via PIN You can fill-in the PIN code of the wireless device and press the button to start the WPS process. The router will wait for the WPS request from the wireless device within 2 minutes.

12 Firewall Settings

The Broadband router provides extensive firewall protection by restricting connection parameters, thus limiting the risk of hacker attacks, and defending against a wide array of common Internet attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a Demilitarized Zone (DMZ).

Note: To enable the Firewall settings select **Enable** and click **Apply**.

The screenshot shows the configuration interface for a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings, Firewall (which is highlighted), Advanced Settings, and Toolbox. A language selection dropdown is on the right. Below the navigation bar, there are tabs for Firewall settings: Enable, DMZ, DoS, Access, and URL block. The 'Enable' tab is selected. The main content area contains a descriptive paragraph about the router's firewall protection and a section titled 'Enable or disable Firewall module function' with radio buttons for 'Enable' (selected) and 'Disable'. An 'Apply' button is located at the bottom right of the form.

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Status Wizard Wireless Settings **Firewall** Advanced Settings Toolbox Choose your language ▼

Enable DMZ DoS Access URL block

The Broadband router provides extensive firewall protection by restricting connection parameters, thus limiting the risk of a hacker attack, and defending against a wide array of common attacks. However, for applications that require unrestricted access to the Internet, you can configure a specific client/server as a Demilitarized Zone (DMZ).

Enable or disable Firewall module function : ☒ Enable ☐ Disable

Apply

DMZ

If you have a client PC that cannot run an Internet application (e.g. Games) properly from behind the NAT firewall, then you can open up the firewall restrictions to unrestricted two-way Internet access by defining a DMZ Host. The DMZ function allows you to re-direct all packets going to your WAN port IP address to a particular IP address in your LAN. The difference between the virtual server and the DMZ function is that the virtual server re-directs a particular service/Internet application (e.g. FTP, websites) to a particular LAN client/server, whereas DMZ re-directs all packets (regardless of services) going to your WAN IP address to a particular LAN client/server.

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SITECOM

Status Wizard Wireless Settings **Firewall** Advanced Settings Toolbox Choose your language

Enable **DMZ** DoS Access URL block

If you have a local client PC that cannot run an Internet application properly from behind the NAT firewall, you can open unrestricted two-way Internet access for this client by defining a Virtual DMZ Host.

☒ Enable DMZ

Public IP Address	Client PC IP Address
☒ Dynamic IP Session 1	
☐ Static IP	

Add Reset

DMZ table:

NO.	Public IP Address	Client PC IP Address	Select
1	192.168.0.100	192.168.0.100	☐

Delete Selected Delete All Reset

Apply Cancel

Enable DMZ Enable/disable DMZ

Public IP Address The IP address of the WAN port or any other Public IP addresses given to you by your ISP

Client PC IP Address Fill-in the IP address of a particular host in your LAN that will receive all the packets originally going to the WAN port/Public IP address above.

Click **<Apply>** at the bottom of the screen to save the above configurations.

Denial of Service (DoS)

The Broadband router's firewall can block common hacker attacks, including Denial of Service, Ping of Death, Port Scan and Sync Flood. If Internet attacks occur the router can log the events.



Ping of Death Protections from Ping of Death attack

Discard Ping From WAN The router's WAN port will not respond to any Ping requests

Port Scan Protects the router from Port Scans.

Sync Flood Protects the router from Sync Flood attack.

Access

You can restrict users from accessing certain Internet applications/services (e.g. Internet websites, email, FTP etc.). Access Control allows users to define the traffic type permitted in your LAN. You can control which PC client can have access to these services.

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Status Wizard Wireless Settings **Firewall** Advanced Settings Toolbox Choose your language ▼

Enable DMZ DoS **Access** URL block

Access Control allows users to define the traffic type permitted or not permitted in your LAN. You can control which PC uses what services or has access to.
If both MAC filtering and IP filtering are enabled, the MAC filtering table will be checked first.

☐ Enable MAC filtering ☒ Deny ☐ Allow

Client PC MAC Address	Comment

MAC Filtering table:

NO.	Client PC MAC Address	Comment	Select
Delete Selected	Delete All	Reset	

☐ Enable IP Filtering Table ☒ Deny ☐ Allow

NO.	PC Description	PC IP Address	Client Service	Protocol	Port range	Select
Add	Delete Selected	Delete All				

Deny If you select "Deny" then all clients will be allowed to access Internet accept for the clients in the list below.

Allow If you select "Allow" then all clients will be denied to access Internet accept for the PCs in the list below.

Filter client PCs by IP Fill in "IP Filtering Table" to filter PC clients by IP.

Add PC You can click Add PC to add an access control rule for users by IP addresses.

Remove PC If you want to remove some PCs from the "IP Filtering Table", select the PC you want to remove in the table and then click "Delete Selected". If you want to remove all PCs from the table, just click the "Delete All" button.

Filter client PC by MAC Check "Enable MAC Filtering" to enable MAC Filtering.

Add PC Fill in "Client PC MAC Address" and "Comment" of the PC that is allowed to access the Internet, and then click "Add". If you find any typo before adding it and want to retype again, just click "Reset" and the fields will be cleared.

Remove PC If you want to remove some PC from the "MAC Filtering Table", select the PC you want to remove in the table and then click "Delete Selected". If you want to remove all PCs from the table, just click the "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".

Click <**Apply**> at the bottom of the screen to save the above configuration.

URL block

You can block access to some Web sites from particular PCs by entering a full URL address or just keywords of the Web site.

The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. The 'Firewall' tab is selected, and within it, the 'URL block' sub-tab is active. The interface explains that users can block access to certain web sites by entering a full URL or a keyword. There is a checkbox for 'Enable URL Blocking' which is currently unchecked. Below it is a text input field labeled 'URL/keyword :'. To the left of this field are 'Add' and 'Reset' buttons. Below the input field is a table titled 'Current URL Blocking Table:'. The table has three columns: 'NO.', 'URL/keyword', and 'Select'. Below the table are three buttons: 'Delete Selected', 'Delete All', and 'Reset'. At the bottom right of the interface are 'Apply' and 'Cancel' buttons.

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STATUS WIZARD WIRELESS SETTINGS **FIREWALL** ADVANCED SETTINGS TOOLBOX Choose your language ▼

Enable DMZ DoS Access **URL block**

You can block access to certain Web sites for a particular PC by entering either a full URL address or just a keyword of the Web site

☐ **Enable URL Blocking**

URL/keyword :

Add Reset

Current URL Blocking Table:

NO.	URL/keyword	Select
-----	-------------	--------

Delete Selected Delete All Reset

Apply Cancel

Enable URL Blocking Enable/disable URL Blocking.

Add URL Keyword Fill in "URL/Keyword" and then click "Add". You can enter the full URL address or the keyword of the web site you want to block.

Remove URL Keyword If you want to remove some URL keywords from the "Current URL Blocking Table", select the URL keyword you want to remove in the table and then click "Delete Selected". If you want remove all URL keywords from the table, just click "Delete All" button. If you want to clear the selection and re-select again, just click "Reset".

Click <**Apply**> at the bottom of the screen to save the above configurations.

13 Advanced Settings

Network Address Translation (NAT) allows multiple users at your local site to access the Internet through a single Public IP Address or multiple Public IP Addresses. NAT provides Firewall protection from hacker attacks and has the flexibility to allow you to map Private IP Addresses to Public IP Addresses for key services such as Websites and FTP. Select Disable to disable the NAT function.

Port Forwarding

Port Forwarding allows you to re-direct a particular range of service port numbers (from the Internet/WAN Port) to a particular LAN IP address. It helps you to host servers behind the router NAT firewall.



Enable Port Forwarding Enable Port Forwarding

Private IP This is the private IP of the server behind the NAT firewall.

Type This is the protocol type to be forwarded. You can choose to forward "TCP" or "UDP" packets only, or select "both" to forward both "TCP" and "UDP" packets.

Port Range The range of ports to be forward to the private IP.

Comment description of this setting.

Add Port Forwarding Fill in the "Private IP", "Type", "Port Range" and "Comment" of the setting to be added and then click "Add". Then this Port Forwarding setting will be added into the "Current Port Forwarding Table" below.

Remove Port Forwarding If you want to remove a Port Forwarding setting from the "Current Port Forwarding Table", select the Port Forwarding setting that you want to remove in the table and then click "Delete Selected". If you want to remove all Port Forwarding settings from the table, just click "Delete All" button. Click "Reset" will clear your current selections.

Virtual Server

Use the Virtual Server function when you want different servers/clients in your LAN to handle different service/Internet application type (e.g. Email, FTP, Web server etc.) from the Internet. Computers use numbers called port numbers to recognize a particular service/Internet application type. The Virtual Server allows you to re-direct a particular service port number (from the Internet/WAN Port) to a particular LAN private IP address and its service port number.

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Status Wizard Wireless Settings Firewall **Advanced Settings** Toolbox Choose your language

NAT Enable **Port forwarding** Virtual Server Special Applications Application Layer Gateway uPnP Quality of Service

Entries in this table allow you to automatically redirect common network services to a specific PC behind the NAT firewall. These settings are only necessary if you wish to host some sort of server like a web server or mail server on the local network.

☒ **Enable Port Forwarding**

Local IP	Type	Port range	Comment
	Both	-	

Add Reset

Current Port Forwarding Table:

NO.	Local IP	Type	Port range	Comment	Select

Delete Selected Delete All Reset

Apply Cancel

Enable Virtual Server Enable Virtual Server.

Private IP This is the LAN client/host IP address that the Public Port number packet will be sent to.

Private Port This is the port number (of the above Private IP host) that the below **Public Port** number will be changed to when the packet enters your **LAN** (to the LAN Server/Client IP).

Type Select the port number protocol type (TCP, UDP or both). If you are unsure, then leave it to the default "both" setting. **Public Port** Enter the service (service/Internet application) port number from the Internet that will be re-directed to the above Private IP address host in your LAN.

Comment The description of this setting.

Add Virtual Server Fill in the "Private IP", "Private Port", "Type", "Public Port" and "Comment" of the setting to be added and then click "Add". Then this Virtual Server setting will be added into the "Current Virtual Server Table" below.

Remove Virtual Server If you want to remove Virtual Server settings from the "Current Virtual Server Table", select the Virtual Server settings you want to remove in the table and then click "Delete Selected". If you want to remove all Virtual Server settings from the table, just click the "Delete All" button. Click "Reset" will clear your current selections.

Click <**Apply**> at the bottom of the screen to save the above configurations.

Special Applications

Some applications require multiple connections, such as Internet games, video Conferencing, Internet telephony and others. In this section you can configure the router to support multiple connections for these types of applications.

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Status Wizard Wireless Settings Firewall **Advanced Settings** Toolbox Choose your language ▼

NAT Enable Port forwarding **Virtual Server** Special Applications Application Layer Gateway uPnP Quality of Service

You can configure the router as a Virtual Server allowing remote users to access services such as Web or FTP at your local PC. Depending on the requested service (TCP/UDP) port number, the router will redirect the external service request to the appropriate internal server (located at one of your local PCs).

☐ Enable Virtual Server

Local IP	Local Port	Type	Public Port	Comment
		Both ▼		

Current Virtual Server Table:

NO.	Local IP	Local Port	Type	Public Port	Comment	Select
Delete Selected Delete All Reset						

Enable Trigger Port Enable the Special Application function.

Trigger Port This is the out going (Outbound) range of port numbers for this particular application.

Trigger Type Select whether the outbound port protocol is "TCP", "UDP" or both.

Public Port Enter the In-coming (Inbound) port or port range for this type of application (e.g. 2300-2400, 47624).

Public Type Select the Inbound port protocol type: "TCP", "UDP" or both

Comment The description of this setting.

Popular applications This section lists the more popular applications that require multiple connections. Select an application from the Popular Applications selection. Once you have selected an application, select a location (1-10) in the

Copy to selection box and then click the Copy to button. This will automatically list the Public Ports required for this popular application in the location (1-10) you specified.

Add Special Application Fill in the "Trigger Port", "Trigger Type", "Public Port", "Public Type", "Public Port" and "Comment" of the setting to be added and then click "Add". The Special Application setting will be added into the "Current Trigger-Port Table" below. If you happen to make a mistake, just click "Clear" and the fields will be cleared.

Remove If you want to remove Special Application settings from the "Current Trigger-Port Table", select the Special Application settings you want to remove in the table and then click "Delete Selected". If you want remove all Special Application settings from the table, just click the "Delete All" button. Click "Reset" will clear your current selections.

ALG

You can select applications that need "Application Layer Gateway" support.

The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings (which is highlighted), and Toolbox. A language selection dropdown is on the right. Below the navigation bar, a sub-menu contains links for NAT Enable, Port forwarding, Virtual Server, Special Applications (highlighted), Application Layer Gateway, uPnP, and Quality of Service.

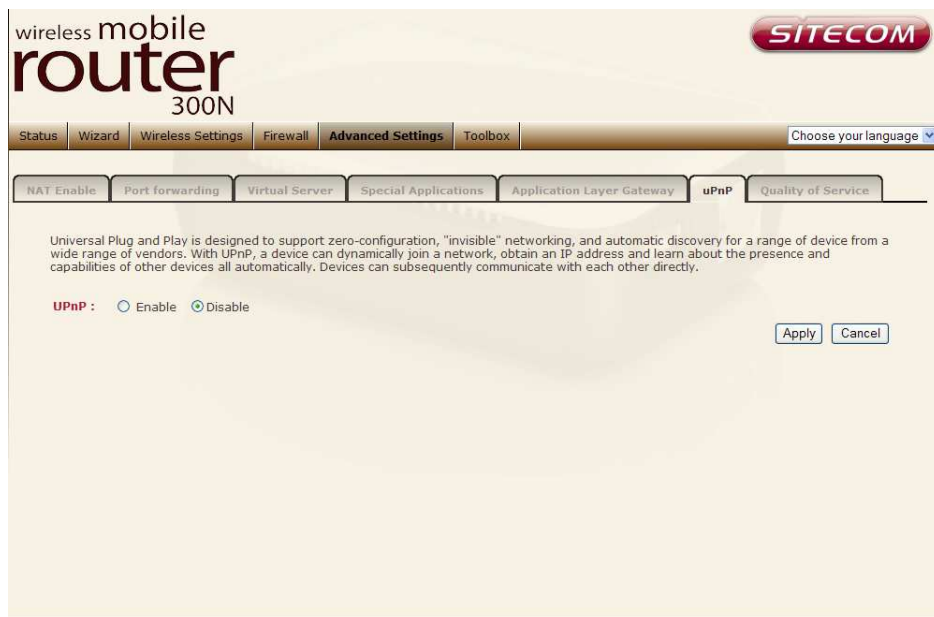
The main content area is titled "Application Layer Gateway" and contains the following elements:

- A paragraph explaining that some applications require multiple connections and that NAT must be disabled for them to work.
- A checkbox labeled "Enable Trigger Port" which is currently unchecked.
- A table with the following columns: Trigger port, Trigger type, Public Port, Public type, and Comment. The Trigger port field has a range selector (1-65535) and a "Both" dropdown. The Public Port field is empty, and the Public type dropdown is also set to "Both".
- A section for "Popular applications" with a dropdown menu labeled "Select an application" and an "Add" button.
- Buttons for "Add" and "Reset" below the popular applications section.
- A section titled "Current Trigger-Port Table:" containing a table with columns: NO., Trigger port, Trigger type, Public Port, Public type, Comment, and Select.
- Buttons for "Delete Selected", "Delete All", and "Reset" below the current trigger-port table.
- "Apply" and "Cancel" buttons at the bottom right of the page.

Enable select enable "Application Layer Gateway", then the router will let the selected application correctly pass through the NAT gateway.

UPnP

With UPnP, all PCs in your Intranet will discover this router automatically, so you don't have to configure your PC and it can easily access the Internet through this router.



UPnP Feature You can enable or Disable the UPnP feature here. After you enable the UPnP feature, all client systems that support UPnP, like Windows XP and Vista, can discover this router automatically and access the Internet through this router without having to configure anything. The NAT Traversal function provided by UPnP can let applications that support UPnP connect to the internet without having to configure the virtual server sections.

QoS

QoS can let you classify Internet application traffic by source/destination IP address and port number. You can assign priority for each type of application and reserve bandwidth for it. The packets of applications with higher priority will always go first. Lower priority applications will get bandwidth after higher priority applications get enough bandwidth. This can let you have a better experience in using critical real time services like Internet phone, video conference ...etc. All the applications not specified by you are classified as rule name "Others". The rule with a smaller priority number has a higher priority; the rule with a larger priority number has a lower priority. You can adjust the priority of the rules by moving them up or down.

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Status Wizard Wireless Settings Firewall **Advanced Settings** Toolbox Choose your language ▼

NAT Enable Port forwarding Virtual Server Special Applications Application Layer Gateway uPnP **Quality of Service**

Quality of Service (QoS) refers to the capability of a network to provide better service to selected network traffic. The primary goal of QoS is to provide priority including dedicated bandwidth, controlled jitter and latency (required by some real-time and interactive traffic), and improved loss characteristics. Also important is making sure that providing priority for one or more flows does not make other flows fail.

☐ Enable QoS

Current QoS Table :

Priority	Rule Name	Upload Bandwidth	Download Bandwidth	Select
----------	-----------	------------------	--------------------	--------

Add Edit Delete Selected Delete All Move Up Move Down Reset

Apply Cancel

Enable/Disable QoS You can check "Enable QoS" to enable QoS functionality for the WAN port.

Add a QoS rule into the table Click "Add" then enter a form of the QoS rule. Click "Apply" after filling out the form the rule will be added into the table.

Remove QoS rules from the table If you want to remove QoS rules from the table, select the QoS rules you want to remove in the table and then click "Delete".

Selected". If you want remove all QoS rules from the table, just click the "Delete All" button. Clicking "Reset" will clear your current selections.

Edit a QoS rule Select the rule you want to edit and click "Edit", then enter the detail form of the QoS rule. Click "**Apply**" after editing the form and the rule will be saved.

Adjust QoS rule priority You can select the rule and click "Move Up" to make its priority higher. You also can select the rule and click "Move Down" to make its priority lower.

14 TOOLBOX Settings

Password change options

You can change the password required to log into the broadband router's system web-based management. By default, the password is: admin. Passwords can contain 0 to 12 alphanumeric characters, and are case sensitive.

The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. The Toolbox menu is currently selected. Below the navigation bar, there is a sub-menu with options: Password, Timezone, Remote, Firmware, Back-up, Reset, and DDNS. The Password option is active. The main content area displays instructions: "You can change the password which is required to log on to the router. By default, the password is admin. Passwords can contain 0 to 30 alphanumeric characters, and are case sensitive." Below this text are three input fields labeled "Current Password :", "New Password :", and "Confirm Password :". At the bottom right of the form are "Apply" and "Cancel" buttons.

Current Password Fill in the current password to allow changing to a new password.

New Password Enter your new password.

Confirmed Password Enter your new password again for verification purposes.

Click <**Apply**> at the bottom of the screen to save the above configurations.

Time Zone

The Time Zone allows your router to base its time on the settings configured here, which will affect functions such as Log entries and Firewall settings.



The screenshot shows the configuration interface for a Sitecom wireless mobile router 300N. The page title is "wireless mobile router 300N" with the Sitecom logo. A navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. A language selection dropdown is on the right. Below the navigation bar, a sub-menu contains Password, Timezone (selected), Remote, Firmware, Back-up, Reset, and DDNS. The main content area is titled "Set the time zone of the Broadband router. This information is used for log entries and firewall settings." It contains three configuration fields: "Set Time Zone" with a dropdown menu showing "(GMT)Greenwich Mean Time: Dublin, Edinburgh, Lisbon, London"; "Time Server Address" with a text input field containing "europe.pool.ntp.org"; and "Daylight Saving" with an "Enable" checkbox and two date pickers for "From" and "To" times, both set to "January 1". "Apply" and "Cancel" buttons are at the bottom right.

Set Time Zone Select the time zone of the country you are currently in. The router will set its time based on your selection.

Time Server Address You can set an NTP server address.

Enable Daylight Savings The router can also take Daylight savings into account. If you wish to use this function, you must check/tick the enable box to enable your daylight saving configuration (below).

Start Daylight Savings Time Select the period in which you wish to start daylight Savings Time.

End Daylight Savings Time Select the period in which you wish to end daylight Savings Time.

Click **<Apply>** at the bottom of the screen to save the above configurations.

Remote Management

The remote management function allows you to designate a host in the Internet the ability to configure the Broadband router from a remote site. Enter the designated host IP Address in the Host IP Address field.

The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. Below this, a sub-menu contains Password, Timezone, Remote, Firmware, Back-up, Reset, and DDNS. The 'Remote' tab is selected. The page contains a text box explaining the remote management function, followed by a table with three columns: Host Address, Port, and Enable. The Host Address field is empty, the Port field contains '8080', and the Enable checkbox is unchecked. 'Apply' and 'Cancel' buttons are at the bottom right.

Host Address	Port	Enable
	8080	☐

Host Address This is the IP address of the host in the Internet that will have management/configuration access to the Broadband router from a remote site. If the Host Address is left 0.0.0.0 this means anyone can access the router's web-based configuration from a remote location, providing they know the password.

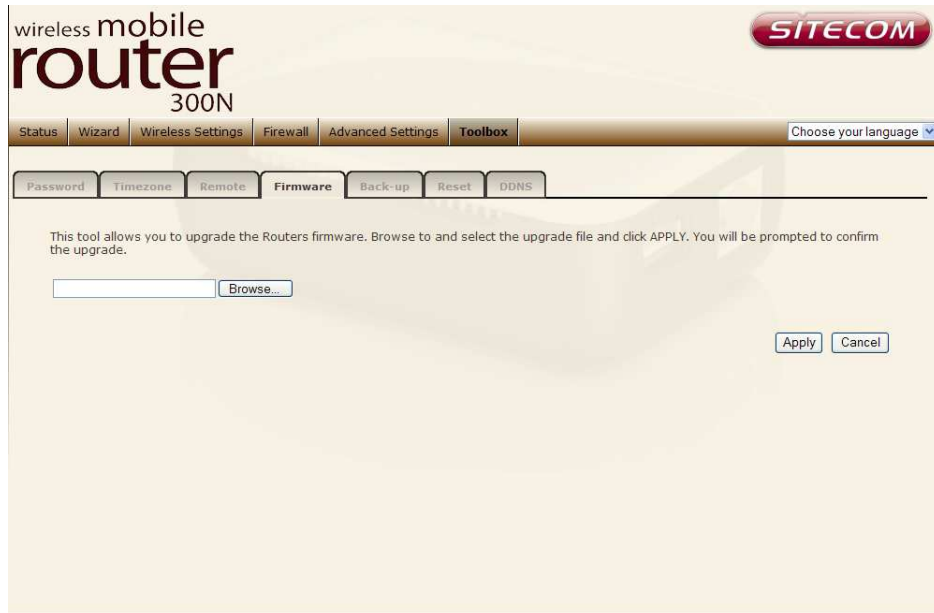
Port The port number of the remote management web interface.

Enabled Select "**Enabled**" to enable the remote management function.

Click **<Apply>** at the bottom of the screen to save the above configurations.

Firmware Upgrade

This page allows you to upgrade the router's firmware.



The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The page has a light beige background. At the top left, it says "wireless mobile router 300N". At the top right is the "SITECOM" logo. Below the logo is a navigation bar with tabs: "Status", "Wizard", "Wireless Settings", "Firewall", "Advanced Settings", and "Toolbox". To the right of the tabs is a "Choose your language" dropdown menu. Below the navigation bar is a sub-navigation bar with tabs: "Password", "Timezone", "Remote", "Firmware", "Back-up", "Reset", and "DDNS". The "Firmware" tab is selected. The main content area contains the following text: "This tool allows you to upgrade the Routers firmware. Browse to and select the upgrade file and click APPLY. You will be prompted to confirm the upgrade." Below this text is a text input field followed by a "Browse..." button. At the bottom right of the page are "Apply" and "Cancel" buttons.

Firmware Upgrade This tool allows you to upgrade the Broadband router's system firmware. To upgrade the firmware of your Broadband router, you need to download the firmware file to your local hard disk, and enter that file name and path in the appropriate field on this page. You can also use the Browse button to find the firmware file on your PC.

Once you've selected the new firmware file, click <**Apply**> at the bottom of the screen to start the upgrade process.

Backup Settings

The Backup screen allows you to save (Backup) the router's current configuration settings. When you save the configuration setting (Backup) you can re-load the saved configuration into the router through the Restore selection. If extreme problems occur you can use the Restore to Factory Defaults selection, this will set all configurations to its original default settings (e.g. when you first purchased the router).



The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The page has a light beige background with a dark brown header. The header includes the text "wireless mobile router 300N" and the "SITECOM" logo. Below the header is a navigation bar with tabs: Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. A "Choose your language" dropdown menu is on the right. Below the navigation bar is a sub-navigation bar with tabs: Password, Timezone, Remote, Firmware, Back-up, Reset, and DDNS. The "Back-up" tab is selected. The main content area contains the following text: "Use BACKUP to save the routers current configuration to a file named config.dlf. You can use RESTORE to restore the saved configuration. Alternatively, you can use RESTORE TO FACTORY DEFAULT to force the router to restore the factory default settings." Below this text are three rows of controls: "Restore To Factory Default : [Reset]", "Backup Settings : [Save]", and "Restore Settings : [text input] [Browse...] [Upload]".

Use the "Backup" tool to save the Broadband router current configuration to a file named "**config.bin**" on your PC. You can then use the "Restore" tool to restore the saved configuration to the Broadband router. Alternatively, you can use the "Restore to Factory Defaults" tool to force the Broadband router to perform a power reset and restore the original factory settings.

Reset

You can reset the router's system should any problem exist. The reset function essentially re-boots your router's system.



Click <**Apply**> at the bottom of the screen to save the above configurations.

DDNS

DDNS allows you to map the static domain name to a dynamic IP address. You must get an account, password and your static domain name from the DDNS service providers. This router supports DynDNS, TZO and other common DDNS service providers.

The screenshot shows the web interface of a Sitecom wireless mobile router 300N. The top navigation bar includes links for Status, Wizard, Wireless Settings, Firewall, Advanced Settings, and Toolbox. Below this is a sub-menu with Password, Timezone, Remote, Firmware, Back-up, Reset, and DDNS. The DDNS section contains a description: "DDNS allows users to map a static domain name to a dynamic IP address. You must get an account, password and your static domain name from the DDNS service provider..". It features a "Dynamic DNS" section with radio buttons for "Enable" and "Disable" (the "Disable" option is selected). Below this is a "Provider" dropdown menu currently set to "3322(qdns)". There are four text input fields for "Domain Name", "Account/E-mail", and "Password/Key". At the bottom right of the form are "Apply" and "Cancel" buttons.

Enable/Disable Enable or disable the DDNS function of this router.

Provider Select a DDNS service provider.

Domain name Fill in your static domain name that uses DDNS.

Account/E-mail The account that your DDNS service provider assigned to you.

Password/Key The password you set for the DDNS service account above.

Click <**Apply**> at the bottom of the screen to save the above configurations.

Parts of the firmware of the WL-357 Wireless Mobile router are subject to the [GNU general public license](#).

Appendix A: Licensing Information

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Specifically, the following part of this product is subject to the GNU GPL:

#	Package name	Source
1	Linux v2.6.21	www.kernel.org
2	Iptables v1.3.5	www.netfilter.org/
3	Bridge-utils v1.2	bridge.sourceforge.net/
4	Busybox v1.7.5	www.busybox.net/
5	Rp-pppoe v3.8	freshmeat.net/projects/rp-pppoe/
6	Pptp-client v1.7.1	pptpclient.sourceforge.net/
7	Ppp v2.4.3	ppp.samba.org/
8	Udhcp v0.9.9-pre	udhcp.busybox.net/
9	iproute2 v2.6.16-060323	www.linux-foundation.org/en/Net:Iproute2
10	Dnsmasq v2.39	www.thekelleys.org.uk/dnsmasq/doc.html
11	Ez-ipupdate v3.0.11b8	ez-ipupdate.com/
12	Libupnp v1.6.0	upnp.sourceforge.net/
13	Wireless-tools v28	RaLink SDK 3.1.0.0
14	U-boot v1.1.3	RaLink SDK 3.1.0.0
15	gcc-3.3.6	RaLink SDK 3.1.0.0
16	Uclibc-0.9.29	RaLink SDK 3.1.0.0

Availability of source code

Sitecom Europe BV has made available the full source code of the GPL licensed software, including any scripts to control the compilation and installation of the object code in the driver section of this product.

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